

ABSTRACT

Object: The present invention aims at providing a photocatalyst capable of utilizing not only an ultraviolet range but also a visible range in a manner to use the catalyst for a decomposition treatment of harmful chemical substances in a gaseous phase or liquid phase, thereby providing means for detoxifyingly treating harmful substances.

Solving Means: The problem is solved by preparing a photocatalyst comprising, as a catalytic component, a complex oxide semiconductor represented by a general formula (I): $BaBi_xO_y$ (wherein x , y have values satisfying $0.5 < x < 2$ and $2.5 < y < 4$, respectively), and by using the photocatalyst.